

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1-22. (Canceled)

23. (New) A rectifier for rectifying an alternating current into a direct current, comprising:
a control part including a controller component and control terminals;
a power circuit controlled by the control part and including switching elements; and
a three-phase generator including a three-phase stator winding, wherein:
 phases of the stator winding are triggered via the switching elements,
 all power-conducting components of the power circuit are power MOS
components and are integrated in a stacked construction.

24. (New) The rectifier as recited in Claim 23, wherein the power-conducting components are power MOS components that are contacted on both sides.

25. (New) The rectifier as recited in Claim 23, further comprising:
a cooling device, wherein:
 the stacked construction of the power includes a first substrate and a second
substrate, between which the power MOS components are placed via contacts on both
sides.

26. (New) The rectifier as recited in Claim 25, wherein the cooling device is situated on top of the stacked construction.

27. (New) The rectifier as recited in Claim 25, wherein the cooling device is situated on the bottom of the stacked construction.

28. (New) The rectifier as recited in Claim 23, wherein the power circuit is contacted outward over a surface.

29. (New) The rectifier as recited in Claim 28, wherein the power circuit is contacted outward via a heat conducting paste applied over a surface for dissipating heat.
30. (New) The rectifier as recited in Claim 24, wherein the power MOS components are contacted on both sides via contact surfaces serving as soldering points/soldering surfaces in the stacked construction.
31. (New) The rectifier as recited in Claim 24, wherein the power MOS components are contacted on both sides via contact surfaces serving as conductive adhesive surfaces in the stacked construction.
32. (New) The rectifier as recited in Claim 24, further comprising:
a cooling element, wherein the stacked construction of the power circuit includes a pressed screen and a first substrate, between which the power MOS components, contacted on both sides, are placed.
33. (New) The rectifier as recited in Claim 23, wherein the stacked construction of the power circuit includes an IMS substrate, to which the power MOS components are connected.
34. (New) The rectifier as recited in Claim 23, wherein the control part is designed in a single-chip construction and includes a controller-ASIC component having an integrated driver component.
35. (New) The rectifier as recited in Claim 23, wherein the control part is designed in a multi-chip construction having a separate controller-ASIC component and a separate driver component .
36. (New) The rectifier as recited in Claim 25, wherein the power circuit contains power terminals as contacts between the first substrate and the second substrate.
37. (New) The rectifier as recited in Claim 25, wherein the power circuit includes power terminals that are placed on the first substrate of the stacked construction.

38. (New) The rectifier as recited in Claim 23, further comprising:
an injection molded material in which the power MOS components are encapsulated.
39. (New) The rectifier as recited in Claim 25, wherein power terminals of the power circuit extend outside on an exposed, coating-free surface of one of substrate surfaces of the stacked construction.
40. (New) The rectifier as recited in Claim 38, wherein the power terminals extend one of outside laterally and in a vertical direction from the power circuit.
41. (New) The rectifier as recited in Claim 23, wherein:
the control part is situated on a surface, made from injection molded material, of the power circuit and is connected thereto via the control terminals extending outside in a vertical direction.
42. (New) The rectifier as recited in Claim 23, wherein the control part includes an application-specific element.
43. (New) The rectifier as recited in Claim 25, wherein the stacked construction includes a base plate having metallic fixing elements projecting from sides thereof.
44. (New) The rectifier as recited in Claim 25, wherein the control part includes one of a standard-packaged IC and an IC having a wiring, each having second control terminals and to which the control terminals of one of the first substrate and the second substrate are connected.